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Weiss et al.(10) **Pub. No.: US 2021/0292784 A1**(43) **Pub. Date: Sep. 23, 2021**(54) **ENGINEERED INCOHERENT FEED  
FORWARD LOOP AND USES THEREOF**(71) Applicant: **Massachusetts Institute of  
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(57)

**ABSTRACT**

The present disclosure, at least in part, relates to an engineered incoherent feed forward loop (iFFL) comprising a first transcription unit encoding an endoribonuclease and a second transcription unit encoding an output molecule and an endoribonuclease target site located in the 5' UTR of the output molecule coding sequence. The engineered iFFL, at least in part, can be used for sustained expression of an output molecule despite of transcription resource disturbance in a given environment.

**Specification includes a Sequence Listing.**